

WHAT IS CLAIMED IS:

- Sub. B1 7
- 5 1. A method for controlling the formation of injector deposits in a gasoline direct injection internal combustion engine by combusting in said engine a fuel comprising gasoline containing from about 12 to about 65 vol% aromatics wherein the source of the aromatics is selected from the group consisting of reformat, fluid cat cracker stream, and mixtures thereof and wherein, with respect to the fluid cat cracker stream, light fluid cat cracker stream constitutes about 70% to 100% of the fluid cat cracker stream.
- 10 2. The method of claim 1 wherein the light fluid cat cracker stream constitutes about 85% to 100% of the fluid cat cracker stream.
- 15 3. The method of claim 1 wherein the light fluid cat cracker stream constitutes about 95% to 100% of the fluid cat cracker stream.
- Sub. B2 20
- 25 4. In a method for controlling the formation of injector tip deposits in a gasoline direct injection internal combustion engine by combusting in the engine a fuel comprising gasoline characterized by having a T90 in the range of about 150 to 182°C, an olefins content in the range of about 3.6 to 20 vol%, a sulfur content in the range of about 5 to 400 ppm and an aromatics content in the range of about 10-45 vol%, the improvement comprising using as the source of aromatics a stream selected from reformat, fluid cat cracker stream and mixture thereof and wherein, with respect to the fluid cat cracker stream light fluid cat cracker stream constitutes about 70 to 100% of the fluid cat cracker stream.
5. The method of claim 4 wherein the light fluid cat cracker stream constitutes about 85 to 100 % of the fluid cat cracker stream.

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6. The method of claim 4 wherein the light fluid cat cracker stream constitutes about 95 to 100% of the fluid cat cracker stream.

Sub. 3
B 5 > 7. The method of claim 1, 2, 3, 4, 5 or 6 wherein the aromatics in the fact are attributable to a mixture of reformate and fluid cat cracker stream in a ratio of about 100:0 to 25:75.

10 8. The method of claim 7 wherein the aromatics in the fuel are attributable to a mixture of reformate and fluid cat cracker stream in a ratio of about 100:0 to 75:25.

9. The method of claim 1 or 4 wherein the aromatics in the fuel are attributable to reformate.

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